## WHAT IS CLAIMED IS:

- 1. A wet lay process for preparing a glass fiber mat comprising the steps of:
- (a) sizing glass fibers with a sizing composition which includes a partially amidated polyalkylene imine cationic lubricant;
- (b) separating said sized glass fibers by immersing said sized glass fibers in an aqueous dispersant medium, whereby a slurry is formed;
  - (c) agitating said slurry;
  - (d) removing individual sized glass fibers from said aqueous slurry;
  - (e) drying said individual sized glass fibers;
- (f) contacting said dried, sized glass fibers with a thermosetting binding resin; and
  - (g) curing said thermosetting resin whereby a glass fiber mat is formed.
- 2. A process in accordance with Claim 1 wherein said partially amidated polyalkylene imine cationic lubricant comprises between about 0.005% and about 0.20% by weight, said percentages being by weight, based on the total weight of the sizing composition.
- 3. A process in accordance with Claim 1 wherein said partially amidated polyalkylene imine has a residual amine value of from about 200 to about 800 and is the reaction product of fatty acids containing between about 2 and about 18 carbon atoms and a polyethylene imine having a molecular weight of from about 800 to about 50,000.

4. A process in accordance with Claim 1 wherein said sized glass fibers have a loss on ignition in the range of between about 0.01% and about 0.75%.

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- 5. A process in accordance with Claim 4 wherein said sized glass fibers have a loss on ignition in the range of between about 0.05% and about 0.5%.
- 6. A process in accordance with Claim 1 wherein said step (b) of separating said sized glass fibers occurs in the presence of an emulsifier to generate entrained air.
  - 7. A process in accordance with Claim 1 wherein said drying step (e) occurs on a endless moving conveyer.
- 8. A process in accordance with Claim 7 wherein said binding step (f) occurs on an endless moving conveyer disposed adjacent to said endless moving conveyer employed in drying said dried sized glass fibers.
  - 9. A process in accordance with Claim 8 wherein said thermosetting binding resin is urea formaldehyde.
    - 10. A process in accordance with Claim 1 wherein said curing step (g) occurs by heating said product of step (f) at a temperature of at least about 175°C.
- 20 11. A glass fiber web comprising glass fibers sized with a sizing composition which includes a partially amidated polyalkylene imine cationic lubricant.
  - 12. A web in accordance with Claim 11 wherein said sized glass fibers are dispersed in a cured thermosetting resin.

13. A web in accordance with Claim 12 wherein said partially amidated polyalkylene imine cationic lubricant comprises between about 0.005% and about 0.02%, said percentages being by weight, based on the total weight of the sizing composition.

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- 14. A web in accordance with Claim 13 wherein said sized glass fibers have a loss on ignition in the range of between about 0.01% and about 0.75%.
- 5 15. A web in accordance with Claim 14 wherein said sized glass fibers have a loss on ignition in the range of between about 0.05% and about 0.5%.

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- 16. A web in accordance with Claim 15 wherein said sized glass fibers have a loss on ignition in the range of between about 0.1% and about 0.2%.
- 17. A web in accordance with Claim 14 wherein said partially amidated polyalkylene imine has a residual amine value of from about 200 to about 800 and is the reaction product of fatty acids containing between about 2 and about 8 carbon atoms and a polyethylene imine having a molecular weight of from about 800 to about 50,000.
- 18. A web in accordance with Claim 11 wherein said cured thermosetting resin is cured urea formaldehyde.